No.



TO AMETO WHOM THESE: PRESENTS SHAME, COME:

IC Robinson Seeds, Inc.

DICTORS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PEANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT (S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS ARE ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC **CEPLENISHMENT** OF VIABLE BASIC SEED O THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE CHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY OF OFFERING IT FOR SALE, OR REPRODUCING IT, OR ORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE E PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT ED BY THE PLANT VARIETY PROTECTION A.CT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN, FIELD

'N61211'

In Testimony Thereof, I have hereunto set my hand and caused the seal of the Plant Pariety Frotestion Office to be affixed at the City of Washington, D.C. this sixteenth day of July, in the year two thousand and eight.

Colward T. Schafe

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE D TECHNOLOGY DIVISION - PLANT VARIETY PROTECT

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U. S. C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER				· · · · · · · ·	2. TEMPORARY	DESIGNATION OR	3. VARIETY NAME	
JC Robinson Seeds, Inc.					EXPERIMENTAL NAME N61211			
							1,10,1	
4. ADDRESS (Street and No., R.F.D. No.,	City, State, and I	IP Code, and Cou	untṛy)		5. TELEPHONE	(include area code)	FOR OFFICIAL USE	ONLY
100 JC Robinson Blvd.					(800) 3	30-9692	200506	194
PO Box 307	PO Box 307					(include area code)	FILING DATE	F Com G
Waterioo, Nebraska 68069					6. FAX	•		1
					(402) 7	79-2910	May 5, 2	1005
7, IF THE OWNER NAMED IS NOT A "PERSON"		ORGANIZAITON		ORATED, GIVE CORPORATION	9. DATE OF INCO	RPORATION	FILING AND EXAMINA	ATION FEE:
(corporation, partnership, association, etc.) (Comm Corporation	non name)		Nebras		9/04/406	2.4	E \$ 3652.00	う
10. NAME AND ADDRESS OF REPRESENTATIV	E(S), IF ANY, TO	SERVE IN THIS	Ť		8/01/196		S DATE (150)	· ·
Eric J. Jarecki	(-),			(rest person notes	· wiii receive aii papars	"	R 5 /5/05	
Research Information Cod	ordinator						C CERTIFICATION FEE:	
PO Box 307	70111001					-	5 768.00	
Waterloo, Nebraska 6806	9						V /	O
44 751 55110115 (5.4.4.4.	40 FAV (5-4			·			D DATE 3/28/0	<u>8</u>
11. TELEPHONE (include area code) (402) 289-6503	1	ude area ∞de)) 779-2910		13. EMAIL F.IARECK	(I@GHSEEDS.C		KIND NAME (Common nam	e)
15. GENUS AND SPECIES NAME		6. FAMILY NAME	(Rotanical)		-	A FIRST GENERATIO		
Zea Mays L.		Graminea	•		YES		NO	
18. CHECK APPROPRIATE BOX FOR EACH ATT.	ACHMENT SUBM			. 19 DOES TH			VARIETY BE SOLD AS A CLA	ASS OF
(Follow instructions on reverse)				CERTIFIE			Plant Variety Protection Act)	100 01
a. X Exhibit A. Origin and Breeding History of the	/ariety	,		YES	(If "yes", snswer item	s 20 and 21 bleow)	X NO (If "no", go	o to item 22)
X Exhibit B. Statement of Distinctness X Exhibit C. Objective Description of the Variety				20. DOES THE	E OWNER SPECIFY	THAT SEED OF	YES NO)
d. X Exhibit D. Additional Description of the Variety	(Optional).			i	_	TO NUMBER OF CLA		
e. X Exhibit E. Statement of the Basis of the Applic f. X Voucher Sample: (2,500 viable untreated seed.	· ·			IF YES, WHICH CLASSES? FOUNDATION REGISTERED CERTIFIED				
f. X Voucher Sample: (2,500 viable untreated seed that tissue culture will be deposited and mainta			tion	!	21. DOES THE OWNER SPECIFY THAT SEED OF THIS YES NO			
g. X Filing and Examination Fee (\$3,652), made pa States" (Mail to Plant Variety Protection Office)		f the United		VAIRETY BE LIMITED AS TO NUMBER OF GENERATIONS IF YES, SPECIFY THE FOUNDATION REGISTERED CERTIFIED				
				NUMBER 1	_			
				(If additiona	al explanation is neces	ssary, please use the s	pace indicated on the reverse	<u>'</u>
22. HAS THE VARIETY (INCLUDING AND HARVES FROM THIS VARIETY BEEN SOLD, DISPOSED				1		IPONENT OF THE VA EEDER'S RIGHT OR I	RIETY PROTECTED BY INTE	LLECTUAL
OTHER COUNTRIES?	YES		NO	THOI EN	7 YES	· ·		
IF YES, YOU MUST PROVIDE THE DATE OF		٠ ــــــ		E VEQ DI	_	DATE OF FILING	X NO DR ISSUANCE AND ASSIGNE	in.
FOR EACH COUNTRY AND THE CIRCUNST,	-	*	•	1		Please use space indic	i.	D
24. The applicant(s) declare that a viable sample of	basic seed of the	variety will be furn	nished with appli	icaiton and will be re	eplenished upon requ	est in accordance with	such regulations as may be	
applicable, or for a tuber propagated variety a tis								
The undersigned applicant(s) is(are) the owner(s Section 42, and is entitled to protection under the	provisions of Se	ction 42 of the Pla	int Variety Prote	ction Act.	lieve(s) that the variet	y is new, distinct, unifo	orm, and stable as required in	
Applicant(s) is(are) informed that false represent: SIGNATURE OF APPLICANT (Owner(s))	ation herein can i	eopardize protecti		penalties. SIGNATURE OF AP	PPLICANT (Owner	r(s))		
6.11	1.						•	
NAME (Please poor or type)	ch				/DL		-	
· · · · · · ·			4	IAME ((Please print or type)			
Eric J. Jarecki								
CAPACITY OR TITLE Research Information Coor	dinatar	DATE 5-2-		APACITY OR TITL	E		DATE	
Research Information Coor	umator	3-1	<i>U</i> 3					

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant an unfiled. Mail application and other requirements to Plant Variety Protection fice, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the plant of the policy of the plant variety protection on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705, Telephone: (301) 504-5682 http://www.ams.usda.gov/lsg/seed.htm.

ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- . If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circimstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- **24. CONTINUED FROM** FRONT (Please give the country, date or filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 9581-9055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gethering and maintaining the data needed, and completing and reviewing the collection of information.

2 U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, silical beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Flights, Room 326-W, Whitten Building, 14th and Independence Aveue, SW, Washington, DC 20250-9410 or cell 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

Origin and Breeding History of N61211

Exhibit A:

N61211 is a corn inbred line developed from the single cross of JCRNR113/FR1064 using the pedigree method of breeding. Selfing and selection were conducted for seven generations in its development. The selection criteria used in the development of N61211 included: grain yield, high plant density tolerance, good stand establishment, silking and pollen shedding ability, stalk and root strength, stay green appearance during senescence, seed quality, and disease tolerance. Testcrosses with unrelated inbreds were made and evaluated over multiple years and locations in the promotion of N61211 to commercial status in hybrid combination.

JCRNR113, a progenitor of N61211, is a proprietary field corn inbred of The J.C. Robinson Seed Co. and has utility patent number 6072019. FR1064, a progenitor of N61211, is a commercial field corn inbred line developed by Illinois Foundation Seeds, Inc.

N61211 has shown uniformity and stability for all traits as described in Exhibit C – "Objective Description of Variety". It has been self pollinated and ear-rowed for seven generations, with careful attention given to uniformity of plant type to ensure homozygosity and phenotypic purity. During the advanced stages of development, hand-pollinated increases of N61211 were observed by the developing breeder to assure stability and uniformity of the inbred line for at least three generations as an inbred as well as in hybrid combinations. No variant traits have been observed or are expected in N61211.

Development history of N61211:

Location/ Season / Year	Inbreeding Level	Pedigree / Ear ID
North Platte, NE / Summer /	S0 .	JCRNR113/FR1064)-X
North Platte, NE / Summer / 1998 North Platte, NE / Summer /	S1	JCRNR113/FR1064)-X-21
1999 North Platte, NE / Summer /	S2	JCRNR113/FR1064)-X-21-1
2000	S3	JCRNR113/FR1064)-X-21-1-2
Molokai, HI / Winter / 2000 North Platte, NE / Summer /	S4	JCRNR113/FR1064)-X-21-1-2-1
2001	S5	JCRNR113/FR1064)-X-21-1-2-1-2
Molokai, HI / Winter / 2001	S6	JCRNR113/FR1064)-X-21-1-2-1

Exhibit B.

N61211 most closely resembles JCRNR113

The following color traits are uniquely different from the check:

N61211

JCRNR113

	Number		Munsell	Number		Munsell
Trait	Value	Color	Code	Value	Color	Code
Cob Color	19	White	5Y9.25/0.5	11	Pink	2.5R6/6

The following traits were observed to be different between the inbred and the standard check:

N61211

JCRNR113

Trait	Number Value	Description	Number Value	Description
Leaf Sheath Pubescence	6	1=none to 9=like peach fuzz	3	1=none to 9=like peach fuzz
Leaf Longitudinal Creases	5	1=none to 9=many	9	1=none to 9=many

EXHIBIT C (Corn: Maize)

United States Department of Agriculture, Agricultural Marketing Service Science Division, Plant Variety Protection Office National Agricultural Library Building, Room 500 Beltsville, MD 20705 OBJECTIVE DESCRIPTION OF VARIETY CORN (Zea mays L.)

Name of Applicant(s)	Variety Seed Source	Variety Name or Temporary Designation
JC Robinson Seeds, Inc.	200211MXNOVSELFA-00	N61211
Address (Street No., or R.F.D., City, State, Zip Code and Co	FOR OFFICIAL USE	
100 J.C. Robinson Blvd., Waterloo, NE 68069 &	PVPO Number 20050024	

Place the appropriate number that describes the varietal characters typical of this inbred variety in the spaces below. Right justify whole numbers by adding leading zeroes if necessary. Completeness should be striven for to establish an adequate variety description. Traits designated by a '*' are considered necessary for an adequate variety description and must be completed.

C	OLOR CHOIC	CES (Use in	conjunction with N	Junsell color code to describe a	all color choices: des	cribe #25 and #26	in Comments section):	
	01=Light G 02=Mediur 03=Dark G 04=Very D 05=Green-	n Green ireen ark Green	06=Pale Yellov 07=Yellow 08=Yellow-Ora 09=Salmon 10=Pink-Orang	12≍Light Red ange 13=Cherry Red 14≂Red	16=Pale Pur 17=Purple 18=Colorless 19=White 20=White Ca	22=1 s 23=1 24=1 apped 25-V		
ST.			ES (Use the most	t similar (in background and ma):
	Yellow Der			Yellow Den	it (Unrelated):	Swe	et Corn:	
	Family	Members		Co109, N	D246	C	13, Iowa5125, P39, 2132	
	B14	•	A632, B64, B68	Oh7, T23	2			
	B37	B37, B76	•	W117, W	153R	Popo		
\mathbf{z}^{c}	, B73 N192, A679, B73, NC268		W182BN		S	SG1533, 4722, HP301, HP7211		
() C103	•	102, Va35, A682		2			
	Oh43	A619, MS	871, H99, Va26	White Dent		Pipe		
	WF9	W64A, A	554, A654, Pa91	Cl66, H1	05, Ky228	N	lo15W, Mo16W, Mo24W	
1.	•		ate types in Comm	nents section) -Pop 6=Ornamental 7=Pipeco	rn	Standard Inb	red Name B73	-
					411			
2.	REGION WHE	ERE DEVEL	OPED IN THE U.S	S.A.:		Standard See	ed Source 92ncei01	
*		west 2=Nort west 7=Oth		east 4=Southeast 5=Southce	ntral	2		
3.	MATURITY (II DAYS	-	st Adaptability: sho HEAT UNITS	ow Heat Unit formula in "Comm	nents" section):	DAYS	HEAT UNITS	
*	0	65	1186.0	From emergence to 50% of	plants in silk	070	1308.5	
*	.0	64	1182.3	From emergence to 50% pla	ints in pollen	068	1281.3	

(*)	003	0066.5	•	n 10% to 90% pollen shed n 50% silk to optimum edible quality n 50% silk to harvest at 25% moisture		00	026.5
4. P	LANT:		Standard Deviation	Sample Size	Stand	ard Deviation	Sample Size
*	212.1 cm Plant Height (to ta	assel tip)	06.2	30	230.9	17.8	30
* *	062.2 cm Ear Height (to bas	se of top ear no	ode) 09.3	30	099.1	09.3	30
٠	013.6 cm Length of Top Ear	r Internode	01.6	30	014.3	01.6	30
	0.0 Average Number of T	illers	0.00	30	0.0	00.0	30
	1.0 Average Number of E	ars per Stalk	00.2	30	1.0	0.00	30
*	3 Anthocyanin of Brace	Roots: 1=Abs	ent 2=Faint 3=Moderate 4=D	ark	4		



200500248

009.4 cm Width of Ear Node Leaf						T	G V	V V V	
5. LEAF Standard Deviation Sample Size Standard Deviation O/9.8 cm Width of Ear Node Leaf 0.7 30 009.9 1.0 009.9 1.0 071.8 cm Length of Ear Node Leaf 4.7 30 078.0 5.8 08 Number of leaves above top ear 0.6 30 06 0.5 0.5 025 Degrees Leaf Angle 7.1 30 010 2.6 0.5 025 Degrees Leaf Angle 7.1 30 010 2.6 010 2.6 010 025 Degrees Leaf Angle 7.1 30 010 2.6 010 2.6 010 025 Degrees Leaf Angle 7.1 30 010 2.6 010 025 Degrees Leaf Angle 7.1 00 010 2.6 010 025 Degrees Leaf Angle 7.1 00 010 2.6 010 025 Degrees Leaf Angle 7.1 00 010 2.6 010 025 Degrees Leaf Angle 7.1 025 De	Application	Variety Data	N61211	Page 2		Standard	Inbred Data	B73	
071.8 cm Length of Ear Node Leaf		_		-	Sample Size		Standard Dev	riation S	ample Size
0.6 Number of feaves above top ear 0.6 30 06 0.5 0.25 Degrees Leaf Angle 7.1 30 010 2.8 (measure from 2nd leaf above ear at anthesis to stalk above leaf) * Marginal Waves (Rate on scale from 1=none to 9=liko peach fuzz) 6 6 6 4 Marginal Waves (Rate on scale from 1=none to 9=liko peach fuzz) 6 6 6 4 Marginal Waves (Rate on scale from 1=none to 9=liko peach fuzz) 7 5 Longitudinal Creases (Rate on scale from 1=none to 9=many) 7 5 Longitudinal Creases (Rate on scale from 1=none to 9=many) 8 7 5 1 Congitudinal Creases (Rate on scale from 1=none to 9=many) 9 7 10.3 10 10 10 10 10 10 10 10 10 10 10 10 10	*	009.4 cm Width o	of Ear Node Leaf	0.7	30	(009.9 1.0)	30
025 Degrees Leaf Angle	(;	071.8 cm Length	of Ear Node Leaf	4.7	30	(78.0 5.8	3	30
(measure from 2nd leaf above ear at anthesis to stalk above leaf) (principal Leaf Color (Munsell code) 7.5GY3/4 6 Leaf Sheath Pubescence (Rate on scale from 1=none to 9=inke peach fuzz) 4 Marginal Waves (Rate on scale from 1=none to 9=many) 5 Longitudinal Creases (Rate on scale from 1=none to 9=many) 5 Longitudinal Creases (Rate on scale from 1=none to 9=many) 5 Longitudinal Creases (Rate on scale from 1=none to 9=many) 6 Number of Primary Lateral Branches 9 1.3 30 07 01.3 9 07 01.3 9 08 Branch Angle from Central Spike 12.5 30 017 08.1 45.3 cm Tassel Length 06.1 30 45.1 03.7 (from top leaf collar to tassel tip) 8 Pollen Shed (Rate on scale from 0=male sterile to 9=heavy shed) 7 09 Another Color (Munsell code) 2.5YR7/6 9 Glume Color (Munsell code) 7.5GY6/8 1 Bar Glumes (Glume Bands): 1=Absent 2=Present 1 a. EAR (Unhusked Data): 9 Silk Color (3 days after emergence) (Munsell code) 2.5GY8/8 02 Fresh Husk Color (25 days after 50% silking) (Munsell code) 10YR8.6/2.5 3 Position of Ear at Dry Husk Stage: 1=Upright 2=Horizontal 3=Pendant 5 Husk Tightness (Rate on scale from 1=very loose to 9=very tight) 7 2 Husk Extension (at harvest): 1=Short (ears exposed) 2=Medlum (<8 cm) 3 128.7 gm Ear Weight 21.6 30 118.8 14.4 16 Number of Kernel Rows 01.5 30 17 01.4 12.7 cm Shank Length 01.8 30 10.1 01.5	*	06 Number of	leaves above top ear	0.6	30		06 0.5	5	30
(measure from 2nd leaf above ear at anthesis to stalk above leaf)		025 Degrees Le	eaf Angle	7.1	30		010 2.6	\$	30
6 Leaf Sheath Pubescence (Rate on scale from 1=none to 9=like peach fuzz) 4 Marginal Waves (Rate on scale from 1=none to 9=many) 5 Longitudinal Creases (Rate on scale from 1=none to 9=many) 4 TASSEL: Standard Deviation Sample Size 05 Number of Primary Lateral Branches 01.3 30 07 01.3 040 Branch Angle from Central Spike 12.5 30 017 08.1 45.3 cm Tassel Length 06.1 30 45.1 03.7 (from top leaf collar to tassel tip) 8 Pollen Shed (Rate on scale from 0=male sterile to 9=heavy shed) 7 Of Another Color (Munsell code) 2.5YR7/6 09 (Munsell code) 7.5YR8/4 Of Glume Color (Munsell code) 7.5GY6/8 02 (Munsell code) 7.5GY6/8 1 Bar Glumes (Glume Bands): 1=Absent 2=Present 1 a. EAR (Unhusked Data): Of Silk Color (3 days after so% silking) (Munsell code) 7.5GY7/6 21 Dry Husk Color (65 days after 50% silking) (Munsell code) 10YR8.5/2.5 3 Position of Ear at Dry Husk Stage: 1=Upright 2=Hortzontal 3=Pendant 15 Husk Tightness (Rate on scale from 1=very loose to 9=very tight) 7 2 Husk Extension (at harvest): 1=Short (ears exposed) 2=Medium (<8 cm) 3=Long (8-10 cm beyond ear tip) 4=Very Long (<910 cm) EAR (Husked Ear Standard Deviation Sample Size 14.8 cm Ear Length 01.0 30 14.5 00.6 40.6 mm Ear Diameter at mi 02.4 30 44.8 01.5 128.7 gm Ear Weight 21.6 30 118.8 14.4 16 Number of Kernel Rows 01.5 30 17 01.4 2 Kernel Rows: 1=Indistinct 2=Distinct 12.7 cm Shank Length 01.8 30 10.1 01.5				anthesis to stalk above le	af)				
6 Leaf Sheath Pubescence (Rate on scale from 1=none to 9=like peach fuzz) 4 Marginal Waves (Rate on scale from 1=none to 9=many) 5 Longitudinal Creases (Rate on scale from 1=none to 9=many) 4 TASSEL: Standard Deviation Sample Size 0.5 Number of Primary Lateral Branches 0.1.3 30 0.7 0.1.3 0.40 Branch Angle from Central Spike 12.5 30 0.17 0.8.1 45.3 cm Tassel Length 0.6.1 30 45.1 0.3.7 (from top leaf collar to tassel tip) 8 Pollen Shed (Rate on scale from 0=male sterile to 9=heavy shed) 7 Another Color (Munsell code) 2.5YR7/6 0/f Another Color (Munsell code) 7.5GY6/8 1 Bar Glumes (Glume Bands): 1=Absent 2=Present 1 1. EAR (Unhusked Data): 1. EAR (Unhusked Data): 2 Fresh Husk Color (25 days after 50% silking) (Munsell code) 7.5GY7/6 21 Dry Husk Color (65 days after 50% silking) (Munsell code) 10YR8.5/2.5 3 Position of Ear at Dry Husk Stage: 1=Upright 2=Hortzontal 3=Pendant 1 5 Husk Tightness (Rate on scale from 1=very loose to 9=very tight) 7 2 Husk Extension (at harvest): 1=Short (ears exposed) 2=Medlum (<8 cm) 3=Long (8-10 cm beyond ear tip) 4=Very Long (<910 cm) 30 14.5 00.6 40.6 mm Ear Length 01.0 30 14.5 00.6 40.6 mm Ear Diameter at mi 02.4 30 44.8 01.5 128.7 gm Ear Weight 2.1.6 30 17.8 01.4 18.8 14.4 18 Number of Kernel Rows 01.5 30 17 01.4 12.7 cm Shank Length 01.8 30 10.1 01.5	*	△4 Leaf Color	(Munsell code)	7.5GY3/4		05	(Munsell code	e) 2.5GY	′8/6
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05 Number of Primary Lateral Branches	TACCEL			Standard Doviation	Cample Size		Standard Dev	iation S	ample Siz
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1 Row Alignment: 1=Straight 2=Slightly Curved 3=Spiral 1 12.7 cm Shank Length 01.8 30 10.1 01.5		16 Number of K	ernel Rows	01.5	30	17	01.	4	30
12.7 cm Shank Length 01.8 30 10.1 01.5		2 Kernel Rows	: 1=Indistinct 2=Distinct			2			
· · · · · · · · · · · · · · · · · · ·		1 Row Alignme	ent: 1=Straight 2=Slightly	Curved 3=Spiral		1			
2 Ear Taper: 1=Slight 2=Average 3=Extreme 1	1	12.7 cm Shank Le	ength	01.8	30	10.1	01.	5	30
		2 Ear Taper: 1	1=Slight 2=Average 3=Ex	treme	Ì	1			
Application Variety Data Standard Inbred Data	Application 16	arioty Date				Standard	Inhred Data		

Note: Use chart on first page to choose color codes for color traits.

						SVV.	JUVET
Ŀ	Application Variety Data	N61211	Page	3	Standard Inb	red Data	B73
1	8. KERNEL (Dried)	Star	ndard Deviation	Sample Size	St	andard Deviation	Sample Size
	10.6 mm Kernel Le	ength	00.6	30	10.7	00.5	30
1	07.1 mm Kernel W	/idth	00.4	30	07.2	00.4	30
1	04.0 mm Kernel TI	nickness	00.2	30	03.9	00.3	30
	20.9 % Round Ken	nels (Shape Grade)	05.7	30	22.4	09.3	30
	1 Aleurone Cold	or Pattern: 1=Homozygous	2=Segregating		1		
. (*) 18 Aleurone Cold	or (Munsell code)	COLORLES	S	18 (1	Munsell code)	COLORLESS
*	* 07 Hard Endospe	erm Color (Munsell code)	2.5Y8/10		07 (8	Munsell code)	2.5Y8/10
	4=High Amylo 8=Super Swe	ype: 1=Sweet (sul) 2=Extrose Starch 5=Waxy Starch et (se) 9=High Oil 10=Other	6=High Protein 7=Hi er		03		
	23.5 gm Weight pe	er 100 Kernels (unsized sam	nple) 0:	3.1 30	20.2	02.8	30
	9. COB	Stan	dard Deviation	Sample Size	Sta	andard Deviation	Sample Siz
	* 22.1 mm Cob diam	eter at mid-point	01.4	30	28.9	01.0	30
	19 Cob Color (Mu	ınsell code)	5Y9.25/0.5		12 (N	/lunsell code)	5R6/8
	10. DISEASE RESISTANCE (R leave blank if not tested:	Rate from 1 (most susceptib : leave Race or Strain Option					
	A. Leaf Blights, Wilts, and Loca	d Infectio					
	Anthracnose Leaf Blight (Co Common Rust (Puccinia sor Common Smut (Ustilago ma Eyespot (Kabatiella zeae) Goss's Wilt (Clavibacter mic Gray Leaf Spot (Cercospora Helminthosporium Leaf Spot Northern Leaf Blight (Exsero Southern Leaf Blight (Bipolai Southern Rust (Puccinia poly Stewart's Wilt (Erwinia stewart)	rghi) aydis) chiganese spp. nebraskens zeae-maydis) (Bipolaris maydis) chilum turcicum) ris maydis) ysora)	se) Race Race Race		Rac Rac Rac	be	
P	8. Systemic diseases			· · · · · · · · · · · · · · · · · · ·			
	Corn Lethal Necrosis (MCM\ Head Smut (Sphacelotheca i Maize Chlorotic Dwarf Virus Maize Chlorotic Mottle Virus Maize Dwarf Mosaic Virus (M Sorghum Downy Mildew of Co Other (Specify)	reiliana) (MCDV) (MCMV) IDMV)	Strain rghi)		Stra	iin .	
(C. Stalk Rots						
	Anthracnose Stalk Rot (Colle Diplodia Stalk Rot (Stenocarp Fusarium Stalk Rot (Fusarium Gibberella Stalk Rot (Gibbere Other (Specify)	pella maydis) n moniliforme)					
	. Ear and Kernel Rots						
	Aspergillus Ear and Kernel Ro Diplodia Ear Rot (Stenocarpe Fusarium Ear and Kernel Rot Gibberella Ear Rot (Gibberella Other (Specify)	ella maydis) (Fusarium moniliforme)					
<u>.</u> .	-						
	oplication Variety Data	haana aalar aadaa faa aalaa	traita		Standard Inbre	ed Data	
	ote: Use chart on first page to cl	Hoose color codes for color	uans.				

General Information

Two trials were grown in East Central Nebraska near Waterloo, Nebraska for the purpose of observing data on trait characteristics for PVP and patenting requirements.

Trial 1 (location 1 in the data) was planted 5/15/2003. Trial 2 (location 2 in the data) was planted 5/23/2003.

Multiple dates were timed throughout the growing season to observe the various traits at their maximum expression. Approximately 120 plants were grown in four row plots. 15 plants from the middle two rows were sampled for recording trait information.

The heat units or GDU (growing degree units) is the number of heat units required for an inbred line to reach either silk emergence or pollen shed from the time of planting. Heat units are calculated by the Barger method, where the heat units for a 24 hour-period are:

$$GDU = \frac{\text{Max. + Min.}}{2} - 50$$

The highest maximum used is 86 degrees Fahrenheit and the lowest minimum used is 50 degrees Fahrenheit. For each inbred line, it takes a certain number of heat units to reach various stages of plant development. They are a way of measuring plant maturity.

The Student's t-Test analysis is used to show significant differences from the standard check it most closely resembles. A normal distribution is assumed for this analysis.

The trials were grown in a nested (RCB) randomized complete block design. It was nested to gain maximum precision for observed traits for the new varieties' comparison with the standard inbred variety. In other words, the true varieties were planted in close proximity to each other. The objective (hypothesis) of the trial was to collect data on different traits to compare between different varieties for Exhibits B, and C on the PVP application forms.

Data were collected on 15 different plants per location per trait for each entry in the trial for statistical analysis. The data were collected at varying stages throughout the growing season.

Accumulated GDU and Rainfall for 2003:

<u>Month</u>	<u>GDU</u>	<u>Rainfall</u>
May	313	5.5
June	1056	3.1
July	1639	0
Aug	2392	0.7

Exhibit D.

N61211 additional information GSC2

The following color traits are uniquely different from the check:

N61211

GSC2

+	Number		Munsell	Number		Munsell
Trait	Value	Color	Code	Value	Color	Code
Cob Color	19	White	5Y9.25/0.5	14	Red	5R4/8

The following traits were observed to be different between the inbred and the check:

N61211

GSC2

Trait	Number	Description	Number	
11411	Value	Description	Value	Description
Leaf Longitudinal Creases	5	1=none to 9=many	9	1=none to 9=many
Position of Ear at Dry Husk Stage	3	Pendent	1	Upright
Husk Tightness	5	1=very loose to 9=very tight	8	1=very loose to 9=very tight
Ear Taper	2	Average	1	Slight '

The following traits are highly significant at the 1% level (Student's t-Test procedure) for each location analysis as well as the combined location analysis:

Exhibit D. t-test statistics, (Additional information).

	N61211			GSC2			Mean			
Trait	Loc	N	Mean	SD1	N	Mean	SD2	Diff	t-Value	Prob
Plant Height	1	15	211.8	4.0	15	191.9	6.4	19.9	10.21	0.0000
Plant Height	2	15	212.5	8.0	15	189.4	8.1	23.1	7.82	0.0000
Plant Height	Avg	30	212.1	6.2	30	190.6	7.3	21.5	12.25	0.0000
Ear Height	1	15	58.2	7.9	15	83.3	6.0	-25.1	-9.79	0.0000
Ear Height	2	15	66.3	9.0	15	75.3	6.1	-9.1	-3.23	0.0032
Ear Height	Avg	30	62.2	9.3	30	79.3	7.2	-17.1	- 7.97	0.0000
Length of Top Ear Internode	1	15	13.4	1.2	15	11.9	1.4	1.5	3.18	0.0036
Length of Top Ear Internode	2	15	13.7	2.0	15	12.0	1.3	1.7	2.85	0.0080
Length of Top Ear Internode	Avg	30	13.6	1.6	30	11.9	1.3	1.6	4.27	0.0001
Tassel Length	1	15	46.3	2.7	15	33.9	3.4	12.4	11.06	0.0000
Tassel Length	2	15	44.2	8.3	15	31.4	3.7	12.8	5.49	0.0000
Tassel Length	Avg	30	45.3	6.1	30	32.7	3.7	12.6	9.64	0.0000
Ear Weight	1	15	108.2	3.7	15	98.7	6.1	9.5	5.19	0.0000
Ear Weight	2	15	149.3	6.9	15	121.5	11.6	27.8	7.99	0.0000
Ear Weight	Avg	30	128.7	21.6	30	110.1	14.7	18.6	3.91	0.0002
Number of Kernel Rows	1	15	15.6	1.7	15	13.7	1.3	1.9	3.37	0.0022
Number of Kernel Rows	2	15	15.6	1.4	15	13.7	1.3	1.9	3.88	0.0006
Number of Kernel Rows	Avg	30	15.6	1.5	30	13.7	1.3	1.9	5.18	0.0000
Kernel Length	1	15	10.1	0.2	15	9.6	0.5	0.4	3.33	0.0024
Kernel Length	2	15	11.0	0.3	15	10.6	0.4	0.5	3.47	0.0017
Kernel Length	Avg	30	10.6	0.6	30	10.1	0.6	0.5	2.94	0.0046
Kernel Width	1	15	7.0	0.4	15	7.6	0.5	-0.7	- 4.28	0.0002
Kernel Width	2	15	7.3	0.4	15	8.1	0.5	-0.8	-5.15	0.0000
Kernel Width	Avg	30	7.1	0.4	30	7.9	0.5	-0.7	-5.90	0.0000

U.S. DEPARTMENT OF AGRICULTURE The following statements are made in accordance with the Privacy Act of AGRICULTURAL MARKETING SERVCIE 1974 (5 U. S. C. 552a) and the Paperwork Reduction Act (PRA) of 1995. Application is required in order to determine if a plant variety protection **EXHIBIT E** certificate is to be issued (7 U.S.C. 2421). Information is held confidential STATEMENT OF THE BASIS OF OWNERSHIP until certificate is issued (7 U. S. C. 2426). 1. NAME OF APPLICANT(S) 2. TEMPORARY DESIGNATION 3. VARIETY NAME EXPERIMENTAL NUMBER N61211 JC Robinson Seeds, Inc. 4. ADDRESS (Street and No., R.F.D. No., City, State, and ZIP Code, a 5. TELEPHONE (include area code) 6. FAX (include area code) 100 JC Robinson Blvd. (402) 289-6503 (402) 779-2910 PO Box 307 Waterloo, Nebraska 68069 20050024 7. PVPO NUMBER 8. Does the applicant own all rights to the Mark an "X" in appropriate If no, please explain. [X] YES [] NO 9. Is the applicant (individual or company) a U.S. national or U.S. based company? [X] YES [] NO If no, give name of country 10. Is the applicant the original own IXI YES NO If no, please answer ONE of the following: a. If original rights to variety were owned by individual(s), is (are) the original owner(s) national(s)? [X] YES [] NO If no, give name of country b. If original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company? M YES If no, give name of country ON [] 11. Additional explanation on ow (if needed, use reverse for extra space) The variety for which Plant Variety Protection is hereby sought was developed by Duane Wolf, an employee of the JC Robinson Seeds company. By agreement between the employee and the JC Robinson Seeds company all rights to any invention, discovery, or development made by the employee while employed by the JC Robinson Seeds company are assigned to the JC Robinson Seeds company with no right of any kind retained by the employee.

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

- 1. If the rights to the variety are owned by the original breeder, that person myst be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species,
- 3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition. According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to compete this information collection is estimated to average 10 minutes per response including the time for reviewing instructions searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information.

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To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250 or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employement opportunity employer.